```
=> d que stat 132
              1 SEA FILE=REGISTRY ABB=ON "SODIUM BICARBONATE"/CN
L1
              1 SEA FILE=REGISTRY ABB=ON SODIUM SULPHATE/CN
1.2
L3
              1 SEA FILE=REGISTRY ABB=ON AMMONIUM CHLORIDE/CN
              1 SEA FILE=REGISTRY ABB=ON CALCIUM CHLORIDE/CN
1.4
              O SEA FILE=REGISTRY ABB=ON SODIUM HYDROGEN PHOSPHATE/CN
L_5
              2 SEA FILE=REGISTRY ABB=ON ("SODIUM HYDROGEN PHOSPHATE (NA2H2P2O
L6
                7) "/CN OR "SODIUM HYDROGEN PHOSPHATE (NAH2PO4) "/CN)
              4 SEA FILE=REGISTRY ABB=ON ("POTASSIUM HYDROGEN PHOSPHATE
L7
                (K2H2P2O7) "/CN OR "POTASSIUM HYDROGEN PHOSPHATE (K2HPO4) "/CN
                OR "POTASSIUM HYDROGEN PHOSPHATE (K3HP2O7)"/CN OR "POTASSIUM
                HYDROGEN PHOSPHATE (KH2PO4) "/CN)
              1 SEA FILE=REGISTRY ABB=ON
                                          "POTASSIUM CHLORIDE"/CN
L8
              1 SEA FILE=REGISTRY ABB=ON "AMMONIUM SULPHATE"/CN
Ь9
            995 SEA FILE=HCAPLUS ABB=ON ?COLLAGEN?(W)(?CASING? OR ?CONTAIN?)
L10
L11
             62 SEA FILE=HCAPLUS ABB=ON L10 AND (?FOOD? OR ?FEED?)
              1 SEA FILE=HCAPLUS ABB=ON L11 AND (?CLIP?(3A)(?STRENGTH? OR
L12
                ?STRONG?) OR ?THICK?)
              3 SEA FILE=HCAPLUS ABB=ON L11 AND (?COOK? OR ?BAKE? OR ?BOIL?
L13
                OR ?BROIL?) (L) (?RESIST? OR ?LESS? OR ?RESTRICT? OR ?BARRIER?)
             37 SEA FILE=HCAPLUS ABB=ON L11 AND (?SOAK? OR DRY? OR ?DRIED? OR
L14
                ?AQUEOUS? OR ?WATER? OR ?LIQUID?)
             37 SEA FILE=HCAPLUS ABB=ON L12 OR L13 OR L14
L15
             37 SEA FILE=HCAPLUS ABB=ON L15 AND (?PACK? OR ?CONTAIN? OR
L16
                ?HOLD? OR ?SECURE?)
              4 SEA FILE=HCAPLUS ABB=ON L15 AND (?PACK? OR ?HOLD?)
L17
             37 SEA FILE=HCAPLUS ABB=ON L16 OR L17
L18
L19
             12 SEA FILE=HCAPLUS ABB=ON L18 AND (?COMPOSIT? OR ?FORMULAT?)
             7 SEA FILE=HCAPLUS ABB=ON L18 AND (?METHOD? OR ?TECHNIQ?)
L20
             37 SEA FILE=HCAPLUS ABB=ON L18 OR L19 OR L20
L21
             33 SEA FILE=HCAPLUS ABB=ON L21 AND (PD<20021115 OR PRD<20021115)
L22
           1032 SEA FILE=HCAPLUS ABB=ON ?COLLAGEN? AND (L1 OR L2 OR L3 OR L4
L24
                OR L5 OR L6 OR L7 OR L8 OR L9 OR (?SODIUM? OR NA) (W) (?BICARBONA
                T? OR ?SULPHAT? OR ?SULFAT?) OR (?AMMONIUM? OR NH4 OR ?CALCIUM?
                 OR CA OR ?POTASSIUM?) (W) (?CHLORIDE? OR CL) OR (?SODIUM? OR NA
                OR ?POTASSIUM?) (W) (?HYDROGEN?) (W) (?PHOSPHAT?))
            564 SEA FILE=HCAPLUS ABB=ON L24 AND (?CASING? OR ?CONTAIN?)
L25
L26
             27 SEA FILE=HCAPLUS ABB=ON L25 AND (?FOOD? OR ?FEED?)
L27
              1 SEA FILE=HCAPLUS ABB=ON L26 AND (?CLIP?(3A)(?STRENGTH? OR
                ?STRONG?) OR ?THICK?)
             60 SEA FILE=HCAPLUS ABB=ON L22 OR L26 OR L27
L30
             32 SEA FILE=HCAPLUS ABB=ON L30 AND (?COMPOSIT? OR ?FORMULAT? OR
L32
                ?METHOD? OR ?TECHNIQ?)
```

=> d ibib abs 132 1-32

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L32 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN
```

ACCESSION NUMBER:

<u>.</u>

2004:769610 HCAPLUS

TITLE:

SOURCE:

Method for preparing collagenase

INVENTOR (S):

Isaev, V. A.; Shmoilov, A. M.; Rudenskaya, G. N.;

Zhantiev, R. D.

PATENT ASSIGNEE(S):

Zakrytoe Aktsionernoe Obshchestvo Nauchno-

Proizvodstvennoe Predpriyatie "Trinita", Russia

Russ., No pp. given

CODEN: RUXXE7

DOCUMENT TYPE:

Patent

LANGUAGE:

Russian

FAMILY ACC. NUM. COUNT:

PATENT NO. APPLICATION NO. DATE KIND DATE ____ ______ RU 2236460 C1 20040920 RU 2003-114709 20030520 PRIORITY APPLN. INFO.: RU 2003-114709 20030520 FIELD: biotechnol., preparative biochem.SUBSTANCE: invention can be used in medicine, cosmetol., dermatol., biochem. and food industry and in investigation aims also. Method for preparing the collagenase preparation involves homogenization of the parent

collagen-containing raw, separation of extract by centrifugation, chromatog. purification on ion-exchange resin and the following elution of active fraction, dialysis of eluate and lyophilic drying the final preparation As the parent collagenase-containing raw method

involves using skin beetle larvae of genus Dermestes. Homogenization is carried out in sodium chloride solution with addition of sodium azide in the volume ratio of biomass to solution = 1:(2-2.5). Chromatog. purification is carried

out on DEAE-Sepharose column equilibrated with MES-buffer with addition of 0.005 M of calcium chloride and elution is carried out with Tris-buffer with addition of sodium chloride, calcium chloride and Et alc. Invention provides high yield of collagenase, enhanced specific activity of enzyme by 5-10 times and reduces the process time for prepq.EFFECT: improved preparing method.4 dwg, 2 ex.

L32 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:392086 HCAPLUS

DOCUMENT NUMBER:

140:390638

TITLE:

Starch/collagen casings for

co-extruded **food** products such as sausage.

INVENTOR (S):

Joly, Ghislaine; Kasica, James J.; O'Mara, Robert;

Shariff, Roxanna

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004091581	A1	20040513	US 2002-291888	20021108
JP 2004159656	A2	20040610	JP 2003-372091	20031031 <
DE 10351965	A1	20040527	DE 2003-10351965	20031107 <
NL 1024737	A1	20040709	NL 2003-1024737	20031107 <
PRIORITY APPLN. INFO.:			US 2002-291888 A	20021108 <

AΒ Composites or combinations of selected starches and collagen provide very useful casing materials for co-extruded food products such as sausage. The casing material includes collagen and a) a gel forming, non-degraded, amylose containing dispersed starch, or b) a gel forming, non-degraded, chemical crosslinked or phys. inhibited amylopectin dispersed starch, wherein the starch in a) or b) is characterized by a G' of 600 Pa or greater at a frequency of 0.1 rad/s at 25° C. provided the starch is prepared at a solid concentration of 10 weight %, the amount of starch to collagen being from about 0.05:1 to 10:1 parts by weight on a dry basis.

L32 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:331889 HCAPLUS

DOCUMENT NUMBER:

140:338290

```
Methods and compositions for
TITLE:
                         providing glutamine supplements to humans, especially
                         in disease prevention and treatment.
                         Baxter, Jeffrey H.; Lopez, Jose Maria; Rueda, Ricardo
INVENTOR(S):
PATENT ASSIGNEE(S):
                         Abbott Laboratories, USA
                         PCT Int. Appl., 72 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                        KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
     ------
                        ---
                               -----
                                          _______
     WO 2004032653
                               20040422 WO 2002-US32172 20021008
                        A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, SK, TR
PRIORITY APPLN. INFO.:
                                           US 2002-973105
                                                             A 20021008
     Methods and compns. for providing glutamine supplementation to a
     human comprise orally administering an effective amount of
     N-acetyl-L-glutamine or a nutritionally acceptable salt thereof. The
     N-acetyl-L-glutamine or a nutritionally acceptable salt thereof can be
     incorporated into any liquid composition that is suitable for human
     consumption. Examples of suitable compns. include aqueous solns. such as for
     use as oral rehydration solns. and liquid nutritional formulas (including
     enteral formulas, oral formulas, formulas for adults, formulas for
     children and formulas for infants). The quantity of N-acetyl-L-glutamine
     or nutritionally acceptable salt thereof can vary widely but typically,
     these compns. will contain sufficient N-acetyl-L-glutamine or a
     nutritionally acceptable salt thereof to provide at least 140 mg of total
     glutamine per kg of body weight per day.
REFERENCE COUNT:
                        7
                              THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L32 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        2003:610154 HCAPLUS
DOCUMENT NUMBER:
                        139:148793
TITLE:
                        Method for preparing a blood plasma powder
                        and uses thereof
INVENTOR (S):
                        Roodink, Hendrikus Bernardus Johannes; Zuijdweg, Paul
PATENT ASSIGNEE(S):
                        Harimex B.V., Neth.
SOURCE:
                        PCT Int. Appl., 18 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                               DATE
     PATENT NO.
                        KIND
                                          APPLICATION NO.
                                                                 DATE
     ------
                        A1 20030807 WO 2003-NL56
                                                                -----
     WO 2003063607
                                                                 20030128
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
```

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

```
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
             RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
             ML, MR, NE, SN, TD, TG
     NL 1019873
                          C2
                                20030804
                                            NL 2002-1019873
                                                                    20020131
     EP 1469740
                          Α1
                                20041027
                                            EP 2003-701945
                                                                    20030128
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:
                                            NL 2002-1019873
                                                                A 20020131
                                            WO 2003-NL56
                                                                W 20030128
```

AB The present invention relates to a **method** for preparing a blood plasma powder, in which (1) a fibrinogen concentrate having a fibrinogen content

of at least 1 percent by weight is prepared from blood plasma, and in that (2) said fibrinogen concentrate is spray-dried to form a powder, apparently intended

for use in **foods**, in such a manner that the temperature of the fibrinogen itself is maintained at less than 60°C. Furthermore, the invention relates to a **method** for bonding together pieces of **foodstuff** and to a **method** for increasing the consistency of a liquid or semi-solid **foods**.

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

APPLICATION NO.

DATE

L32 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:413885 HCAPLUS

DOCUMENT NUMBER:

139:6171

TITLE:

N-Acetyl-L-glutamine in nutritional

compositions

INVENTOR(S):

Baxter, Jeffrey H.

DATE

PATENT ASSIGNEE(S):

USA

2

KIND

SOURCE:

U.S. Pat. Appl. Publ., 27 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

US	2003099722	A 1	20030529	US 2001-973105	20011009
US	3 2003134851	A1	20030717	US 2002-266317	20021008
US	3 2004081708	A1	20040429	US 2003-623194	20030718
PRIORIT	TY APPLN. INFO.:			US 2001-973105	A2 20011009
AB G	lutamine suppleme:	ntation	in humans i	s attained by orally	administering an
ef	fective amount o	E N-acet	yl-L-glutam	ine or its salt. Th	ie .
N-	acetyl-L-glutamin	ne or it	s salt can l	be incorporated into	any liquid
cc	mposition that is	s suitak	ole for human	n consumption. Exam	mples include
or	al rehydration s	olns. ar	nd liquid nu	tritional formulas	including enteral
fc	ormulas, oral for	nulas, f	formulas for	adults, formulas fo	or children and
fo	rmulas for infant	s). Th	e quantity of	of N-acetyl-L-glutan	nine or
nu	tritionally acce	table N	I-acetyl-L-g	lutamine salt may va	rv widely but.
ty	pically, the com	ons. cor	tain suffic	ient N-acetyl-L-glut	camine
or	salt to provide	at leas	st 140 mg of	total glutamine per	kg body weight per
đa	y. Thus, a ready	/-to- fe e	d liquid fla	avored product	2 many many por
				odextrin, 52.80 kg s	sucrose,

30.11 kg soy protein hydrolyzate, 10.03 kg N-acetyl-L-glutamine, plus mineral nutrients, vitamins, and other ingredients.

L32 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:254270 HCAPLUS

DOCUMENT NUMBER:

138:254224

TITLE:

Methods for processing of shark skin and

manufacture of collagen

INVENTOR(S):

Watanabe, Kaiji

PATENT ASSIGNEE(S):

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
JP 2003092997	A2	20030402	JP 2001-290201	20010921
PRIORITY APPLN. INFO.:			JP 2001-290201	20010921
AB Shark skin is treate	ed with	Na2S or NaO	H treated with Ca(OH)?	wached wi

AB Shark skin is treated with Na2S or NaOH, treated with Ca(OH)2, washed with H2O, treated with (NH4)2SO4 and NaCl, immersed in an aqueous solution containing HCl or AcOH and NaCl, washed with H2O, and immersed in H2O. Scales are removed from the processed shark skin, and collagen is extracted from the skin. Undenatured collagen of high purity can be obtained.

L32 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:202391 HCAPLUS

DOCUMENT NUMBER:

138:204049

TITLE:

Coextrusion of **food** products with curable

coatings

INVENTOR(S):

Kobussen, Jacobus Petrus Johannes

PATENT ASSIGNEE(S): SOURCE:

KTC Beheer B.V., Neth. PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT NO.					KIN	ND DATE			APPLICATION NO.						DATE		
WO	2003	0200	45		A1		2003	0313							20020827		
	W:						ΑU,										
							DK,										
							IN,										
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		ΡL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,
			ТJ,														
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	BG,
							EE,										
		PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,
		NΕ,	SN,	TD,	TG												•
NL	1018	871			C2	:	2003	0305]	NL 20	001-3	1018	871		20	00109	903
\mathbf{EP}	1424	905			A1		2004	0609]	EP 20	002-	7533	02		20020827		
		ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,		
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK	•	•

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PRIORITY APPLN. INFO.:
```

NL 2001-1018871 A 20010903 WO 2002-NL563 20020827

A method for preparing an extruded food product comprises the steps of (i) simultaneously co-extruding the food product and a curable coating on the outer surface of the food product; (ii) passing the food product that has been subjected to the co-extruding step in step (i) through a coagulation bath; and (iii) subjecting the food product from step (ii) to further treatment. Thus, deacetylated chitin may be co-extruded with collagen; dipotassium phosphate may be used in the coagulation bath; and the extruded sausage strand may be washed with water to remove salts still present on the surface without the casing disintegrating or being remoisturized.

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:741454 HCAPLUS

DOCUMENT NUMBER:

137:351986

TITLE:

Food product obtained by hydrolysis of

collagen-containing skin

INVENTOR(S):

Ermishina, I. G.; Breslavskii, V. P.

PATENT ASSIGNEE(S):

Russia

SOURCE:

Russ., No pp. given

CODEN: RUXXE7

DOCUMENT TYPE:

Patent

LANGUAGE:

Russian

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2181009	C1	20020410	RU 2000-120781	20000810 <
PRIORITY APPLN. INFO.:			RU 2000-120781	20000810 <

A protein-derived food product is obtained by enzymic hydrolysis of collagen-containing material (e.g., from cattle or swine) and includes a complete amino acid composition, polypeptides, water- and fat-soluble vitamins, trace minerals, and residual moisture. The skin-to-water weight ratio for hydrolysis is from 0.35:1 to 0.6:1. Hydrolysis is carried out at 42-49° and pH 7.8-8.0 for 7-10 h. The unhydrolyzed portion is then precipitated at pH

7.4-7.5 and 80-95°. Thus, the product may contain amino acids 30-50; di-, tri-, and tetrapeptides 35-55; polypeptides (\leq 2000 daltons) 11-16; polypeptides (>2000 daltons) 0.05-0.9; vitamins 0.05-0.9:

L32 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

trace elements 0.05-0.5; and water 2-7%.

ACCESSION NUMBER:

2002:591669 HCAPLUS

DOCUMENT NUMBER:

137:154384

TITLE:

Symbiotic regenerative compositions

containing microorganisms

INVENTOR(S):

Schuer, Joerg-Peter

PATENT ASSIGNEE(S):

Germany

SOURCE:

Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

```
PATENT NO.
                        KIND DATE
                                         APPLICATION NO.
                                                                 DATE
                        ----
                               _____
                                          -----
     EP 1228769
                         A1
                               20020807 EP 2001-102384
                                                                 20010202
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     WO 2002067986
                               20020906
                                          WO 2002-EP1056
                        A2
                                                                 20020201
     WO 2002067986
                         Α3
                               20031211
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                        A2 20040225 EP 2002-712882 20020201
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                         A1
                              20040422
                                          US 2003-467040
                                                                20031204
PRIORITY APPLN. INFO.:
                                          EP 2001-102384
                                                              A 20010202
                                                             W 20020201
                                          WO 2002-EP1056
     The invention concerns regenerative drugs, dietary supplements,
AΒ
     feed additives that contain microorganisms and
     modulating substances, e.g. enzymes, GRAS (Generally Recognized As Safe)
     aromas, plant exts. Further the compns. contain vitamins,
     minerals, growth promoters, carrier substances, etc. Microorganisms are
     a-pathogenic, pathogenic or facultative pathogenic,.
REFERENCE COUNT:
                              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                        5
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L32 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        2002:439303 HCAPLUS
DOCUMENT NUMBER:
                        137:46451
TITLE:
                        Collagen hydrolyzate (Kollamin) food
                        additive preparation from natural raw materials
INVENTOR(S):
                        Ermishina, I. G.; Kapitskii, Yu. E.
PATENT ASSIGNEE(S):
                        Russia
SOURCE:
                        Russ., No pp. given
                        CODEN: RUXXE7
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Russian
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
                              DATE
                                       APPLICATION NO.
                       KIND
                                                                DATE
    -----
                        _ _ _ _
                              -----
                                          -----
    RU 2169473
                        C1
                               20010627
                                          RU 2000-120780
                                                                20000810 <=-
PRIORITY APPLN. INFO.:
                                          RU 2000-120780
                                                                20000810 <--
    The method involves preparing a food additive from
    natural balanced raw materials. The food additive Kollamin is
    an enzymic hydrolyzate of collagen-containing tissues
    containing amino acids, polypeptides, water-soluble and
    fat-soluble vitamins, trace elements and residual moisture. Based on
```

Kollamine, nutrient medium is prepared This medium has sodium chloride,

bifidobacteria or lactobacilli. The ready product has 1 x 108 - 1 x 109 viable cells. The product is enriched with biol. active polypeptides with

lactose, agar-agar and purified water that is used for culturing

mol. mass below and above 2000 Da, trace elements, organic and unsatd. fatty acids.

L32 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:409252 HCAPLUS

DOCUMENT NUMBER:

137:2747

TITLE:

Method for producing dehydrated biologically

active products in particulate form Schilling, Marvin L.; Fafard, Richard D.

INVENTOR(S): PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.					KIND DATE			APPLICATION NO.							DATE		
	2002				A1	_	2002	0,530		US	2001-	9641	20		2	0010	925	
WO	2003	0272	32		A2		2003	0403		WO	2002-	US28	856		-2	0020	912	
WO	2003	0272	32		А3		2003	0814										
	W:	ΑT,	AU,	CA,	CN,	DE,	DK,	GB,	ΙL,	JP	, NZ,	PT,	SE,	TR,	ZA			
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FI,	FR,	GB,	GR,	ΪΕ,	IT,	
		LU,	MC,	NL,	PT,	SE,	SK,	TR										
EP	1435	906			A2		2004	0714		ΕP	2002-	7995	77		2	0020	912	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	ŞΕ,	MC,	PT,	
		ΙE,	FI,	CY,	TR,	BG,	CZ,	EE,	SK									
PRIORITY	APP	LN.	INFO	.:					•	US	2000-	2370	05P]	P 2	0000	929	
									1	US	2001-	9641	20	7	A 2	0010	925	
									1	WO	2002-	US28	856	7	W 2	0020	912	

AB The present invention relates to a process for dehydrating naturally occurring organic materials which contain a biol. active component, and in particular proteins such as collagens, which does not change the original structure of the active component. The process consists of drying such material in particulate form in the presence of an antimicrobial agent and preferably an ionizable salt, such as sodium or potassium chloride, at temps. at or below which denaturization occurs until the water content of the material is reduced to <15%. After processing the naturally occurring materials may be used as a dietary supplement, herbal medicines, ingested or topical therapeutic agents, or as an antimicrobial agent added to surgical dressings.

L32 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:327832 HCAPLUS

DOCUMENT NUMBER:

136:309010

TITLE: INVENTOR(S):

SOURCE:

Protein-based thermoplastic chewable pet toy

Wang, Shu Huan; Chen, Cheng-Wen

PATENT ASSIGNEE(S):

Natural Polymer International Corporation, USA

U.S., 11 pp., Cont.-in-part of U.S. 5,922,379.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
		<i></i>				
US 6379725	B1	20020430	US 1998-145659	19980902		
CN 1115966	В	20030730	CN 1999-805790	19990414		

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WO 2000013521
                                20000316
                                            WO 1999-US9397
                          Α1
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
             RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9937737
                          Α1
                                20000327
                                            AU 1999-37737
                                                                    19990430
     EP 1124434
                          A1
                                20010822
                                            EP 1999-920177
                                                                    19990430
         R: DE, FR, GB, IT
     JP 2002524062
                                            JP 2000-568336
                          T2
                                20020806
                                                                    19990430
     TW 522153
                          В
                                20030301
                                            TW 1999-88106335
                                                                    19990503
                                            US 1999-467412
     US 6455083
                          B1
                                20020924
                                                                    19991220
PRIORITY APPLN. INFO.:
                                            US 1998-72857
                                                                 A2 19980505
                                            US 1998-145659
                                                                 A 19980902
                                            WO 1999-US9397
                                                                 W 19990430
     Chewable pet toys are made from protein-based thermoplastic compn
AB
     . containing plant- and animal-derived protein material and various
     additive and nutrient ingredients. The chewable pet toys possess
     properties of conventional artificial dog bones made of synthetic polymer,
     such as good strength and hardness, but they are biodegradable and edible.
     In addition, the chewable pet toys contain vitamins, minerals,
     flavorings, oral hygiene additives and other ingredients to help keep
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teeth and bones strong and to promote the growth and health of the pet. Thus, soy protein and gluten may be used as sources of plant protein; gelatin and casein as sources of animal protein; and glycerol as an edible

plasticizer for injection-molded items.
REFERENCE COUNT: 28 THERE ARE 28

28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L32 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER:

2001:581670 HCAPLUS

DOCUMENT NUMBER:

135:136698

TITLE:

Improved pediatric formula and methods for providing nutrition and improving tolerance

INVENTOR (S):

Borschel, Marlene W.; Luebbers, Steven T.; Black, Cynthia J.; Mckamy, Daniel L.; Costigan, Timothy

PATENT ASSIGNEE(S):

Abbott Laboratories, USA

SOURCE:

PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE		
WO 2001056406	A1 20010809	WO 2001-US1295	20010116		
W: AU, BG, BR		IL, JP, KR, MX, NO, NZ,			
SK, TR					
RW: AT, BE, CH	, CY, DE, DK, ES,	FI, FR, GB, GR, IE, IT,	LU, MC, NL,		
PT, SE, TR					
US 6365218	B1 20020402	US 2000-498350	20000204		
BR 2001006681	A 20020430	BR 2001-6681	20010116		
EP 1251750	A1 20021030	EP 2001-948924	20010116		
R: AT, BE, CH	, DE, DK, ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,		
	, RO, CY, TR		,,		

SI 21018	С	20030430	SI	2001-20017		20010116
JP 2003521501	T2	20030715	JP	2001-556112		20010116
NO 2002003684	Α	20021002	NO	2002-3684		20020802
BG 107019	A	20030430	BG	2002-107019		20020820
PRIORITY APPLN. INFO.:			US	2000-498350	Α	20000204
			WO	2001-US1295	W	20010116

The present invention provides an improved pediatric formula and AB methods for providing nutrition to and enhancing tolerance in pediatric patients. The formula may be provided in powder, concentrate or ready-to-feed forms. The pediatric formula comprises, based on a 100 kcal basis, about 8 to about 16 q carbohydrate (preferably about 9.4 to about 12.3 g), about 3 to about 6 g lipid (preferably about 4.7 to about 5.6 g), about 1.8 to about 3.3 g protein (preferably about 2.4 to about 3.3 g), and a tolerance improver comprising about 37 to about 370 mg (preferably about 74 to about 222 mg, more preferably about 111 to about 148 mg) xanthan gum. The formula may also be provided in a powder, which comprises, based on 100 g of powder, about 30 to about 90 g carbohydrate (preferably about 48 to about 59), about 15 to about 30 g lipid (preferably 22 to about 28 g), about 8 to about 17 g protein (preferably about 11 to about 17), and about 188 to about 1880 mg (preferably about 375 to about 1125, more preferably about 375 to about 1125 mg) xanthan qum. The formula preferably further comprises vitamins and minerals and may further comprise a stabilizer. The methods comprise administering to a pediatric patient an effective amount of a pediatric formula according to the invention, as described above.

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:516085 HCAPLUS

DOCUMENT NUMBER:

135:106651

TITLE:

Cooking of meat with microwave after homogenization

and gelation and restaurant system using the

method

INVENTOR(S):

Katayama, Taro

PATENT ASSIGNEE(S):

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001190247	A2	20010717	JP 2000-3064	20000111
PRIORITY APPLN. INFO.:			JP 2000-3064	20000111

AΒ Meat or fish and shellfish meat is soaked in a high-concentration salt solution (preferably 0.1-7.0 mol/kg) and a high-concentration solution os alkaline agents

(preferably 0.01-4.0 mol/kg) for gelation and irradiated with microwave. The process converts sarcolemma, cells, and collagens into myofibrils by salting-in action, and the myofibrils are further emulsified by addnl. action of body fluid and phospholipids while meat juice and body fluid are gelated, thus making the muscular tissue homogeneous. Cooking such a homogenized meat with microwave uniformly heats the tissue without loosing umami. The method can be applied to seasoned chilled meat, seasoned frozen meat, or thawed meat. Also claimed is a restaurant system by cooking food using the above method and serving the food in a short time. A NaCl solution (6 mol/kg) and

NaHCO3 solution (1 mol/kg) containing vitamin E, vitamin C, sorbic acid, and Na glutamate were injected into frozen round, tumbled for 15 min, and cured at 5° for 24 h. The round was seasoned with NaCl and pepper, broiled for 2 min, and then frozen. The frozen meat was cooked by a microwave oven for 3 min to give soft and juicy steak.

L32 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:861432 HCAPLUS

DOCUMENT NUMBER:

134:4253

TITLE:

Immobilized lactoferrin (Im-LF) antimicrobial agents

and uses thereof

INVENTOR(S):

Naidu, A. Satyanarayan

PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND DATE					LICAT	D	DATE					
							A2 2000 A3 2001			001207 WO 2000-US14818								526
	WO														~-			
		W:										, BG,						
			CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ	, GB,	GD,	GE,	GH,	GM,	HR,	HU,
			ID,	ΙL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR	, KZ,	LC,	LK,	LR,	LS,	LT,	LU,
			LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ	, NO,	NZ,	PL,	PT.	RO,	RU,	SD.
												, TZ,						
												TJ.		,	,	,	,	,
		RW:	-			•	•		•	•		, TZ,		z_{W}	ΔТ	BE	CH	CV
		2000										, LU,						
																SE,	Dr,	, ua
		ca 50	•			•	•	•	•	•		, NE,	•	•				
		6172				B1						1999-						
	BR	2000	0115	58		Α		2002	0226		BR :	2000-	1155	8		2	0000	526
	EΡ	1181	044			A2		2002	0227		EP :	2000-	9379	23		- 2	0000	526
												, IT,						
				SI,									-	-	-			•
	JP	2003	5004	25		T2	-	2003	0107		JP :	2000-	6208	11		2	0000	526
		2000						2003	0429		BR :	2000-	1102	1			0000	
	ΑU	7766	57			В2		2004	0916		AU :	2000-	5303	5			0000	
PRIO	RITY	APP	LN.	INFO	. :							1999-					9990	
												2000-1				_	0000	
λD	Die	10100	A :					م د م								_		

AΒ Disclosed is a composition of matter comprising a defined dispersion of lactoferrin immobilized on a naturally occurring substrate via the N-terminus region of the lactoferrin. Compns. comprising immobilized lactoferrin (Im-LF) are used in a method for reducing the microbial contamination of a composition subject to microbial contamination, which is also disclosed, and which encompasses a method for reducing the microbial contamination of a food , such as a meat product. Foods treated by the method are disclosed, including meat products. A method of inhibiting the growth and/or adhesion of a microbial species on a food -contacting surface of a material for food packaging or food handling with Im-LF is also disclosed. Food containers and food-handling implements so treated are also disclosed, as are antimicrobial cleansers, polishes, paints, sprays, soaps, or detergents containing Im-LF for applying to an inanimate surface.

L32 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:384859 HCAPLUS

DOCUMENT NUMBER: 133:152218

TITLE: Useful protein residues from a new tanning process

with low water consumption (Xipe process)

AUTHOR (S): Lopez, Andrea C.; Plata, Maria T.; Del Cueto, Eusebio;

Leal, Hermilo; Valdivia, Maria De Los A.

CORPORATE SOURCE: Depto. Alimentos y Biotecnologia, Facultad de Quimica,

Universidad Nacional Autonoma de Mexico, Mexico City,

Mex.

Revista de la Sociedad Quimica de Mexico (1999), SOURCE:

43(5), 165-170

CODEN: RSQMAN; ISSN: 0583-7693 Sociedad Quimica de Mexico

DOCUMENT TYPE: Journal LANGUAGE: Spanish

A hide conditioning process (Xipe process) was developed for extraction of fat and proteinaceous materials from raw hides prior to chrome tanning. The process comprises treatment with saline solns. and NaOH and HCl solns., requires min. amount of water, and the effluents contain useful materials that can be recovered to minimize pollutant discharge. Low cost feedstocks, e.g., rockfish hide and chicken feet hide were treated using the Kipe method. The main protein recovered by precipitation with (NH4)2SO4 from the liquid exts. is collagen of 575,440 D mol. weight, as determined by size exclusion chromatog. Various amino acids were identified in the protein fraction, e.g., glycine, proline, and hydroxyproline which together with alanine are the main components of collagen. The collagen has great potential for use the food and cosmetic industries.

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:351319 HCAPLUS

DOCUMENT NUMBER:

PUBLISHER:

132:333710

TITLE:

Method for covering a food product

with collagen

INVENTOR(S):

° Moeller, Patrick W.

PATENT ASSIGNEE(S):

Hickory Specialties, Incorporated, USA

PCT Int. Appl., 19 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT	NO.			KIN	D :	DATE		APPLICATION NO.						DATE			
					-	-								-			
WO 200	00288	37		A1 20000525			WO 1999-US15909						19990714 <				
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	DΕ,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	
		KΕ,															
		MW,															
	TM,	TR,	TT,	UA,	UG,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	
	RU,	ТJ,	·TM														
RW	: GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	
		FI,															
		CM,										•			-		
CA 235	1540			AA	:	2000	0525		CA 1	999-	2351	540		19990714 <			
AU 995	1013			A1	A1 20000605 AU 1999-51013								19	9990.	714 <		

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AU 759935
                          B2
                                20030501
     BR 9915442
                          Α
                                20010807
                                            BR 1999-15442
                                                                    19990714 <--
     EP 1130978
                                20010912
                                            EP 1999-935556
                          Α1
                                                                    19990714 <--
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2002529109
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                                20020910
                                            JP 2000-581898
                                                                    19990714 <--
     NZ 511985
                                20021220
                                            NZ 1999-511985
                          Α
                                                                   19990714 <--
     US 2001022985
                                            US 2001-852172
                          A1
                                20010920
                                                                   20010509 <--
     US 6541053
                          B2
                                20030401
PRIORITY APPLN. INFO.:
                                                                A 19981117 <--
                                            US 1998-193694
                                                                W 19990714 <--
                                            WO 1999-US15909
```

AB A collagen processing method is presented for thickening or hardening the collagen sufficiently, by application of a liquid smoke fraction obtained from a liquid smoke derivative (a derivative being com. available as Code V), so that the resultant treated collagen is useful as a casing for a food product. The liquid smoke fraction may be obtained by treating Code V with both carbon and a pH adjustment whereby the method is without an effect on the taste of the food product. In another embodiment, the Code V is only pH adjusted.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:268514 HCAPLUS

DOCUMENT NUMBER:

132:264429

TITLE:

Brine formulation for curing extruded

sausage strand

INVENTOR(S):

Kobussen, Jaap; Kobussen, Mart; Kobussen, Jos;

Alexander, David

PATENT ASSIGNEE(S):

Townsend Engineering Company, USA

SOURCE:

U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6054155	Α	20000425	US 1997-990619	19971215
CA 2274960	C	20031111	CA 1998-2274960	19981211
US 6153234	Α	20001128	US 1999-287719	19990407
MX 9907532	Α	20000630	MX 1999-7532	19990813
PRIORITY APPLN. INFO.:			US 1997-990619 A	19971215
			WO 1998-US26468 W	19981211

AB In a method for coagulating a co-extruded collagen gel
on a food product (e.g., sausages), a highly soluble salt (solubility
≥8 mol/L at 20°) is applied to the collagen gel
and the collagen gel is coagulated in <60 s. The
collagen gel is acidified with an inorg. acid such as hydrochloric
or sulfuric acid and has a dry matter of 3-25%. Thus, the salt used in
the coagulation solution may be potassium carbonate or dipotassium phosphate.
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

L32 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:260088 HCAPLUS

DOCUMENT NUMBER:

132:278461

TITLE:

Apparatus and chemical composition for

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

maintaining atmospheric humidity to preserve

foods

INVENTOR(S): Fuller, Peter E.

PATENT ASSIGNEE(S): Applied Humidity Technologies, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO	•	KIND DAT	E	APPLICATION NO.			ATE
WO 200002	1580	A1 200	00420				9991006
		, AU, AZ, BA					
		, FI, GB, GD					
		, KR, KZ, LC					
· M	W, MX, NO	, NZ, PL, PT	, RO, RU	, SD, SE,	SG, SI,	SK, SL,	TJ, TM,
		, UG, UZ, VN					
		, LS, MW, SD					
		, FR, GB, GR				SE, BF,	BJ, CF,
		GA, GN, GW					
		A 200					
		AA 200					
		A1 200					
		A1 200					
R: A	Г, ВЕ, СН,	DE, DK, ES	, FR, GB	, GR, IT,	LI, LU,	NL, SE,	MC, PT,
I	E, SI, LT,	LV, FI, RO					
JP 200252	7411	T2 200	20827	JP 2000-9	575552	1:	9991006
PRIORITY APPLN	. INFO.:	· ·		US 1998-1			
				US 1999-4			9990923
				WO 1999-U	JS23420	W 19	9991006

Aqueous compns. are formed from combining water, and at least one solute such AB as sodium bicarbonate, acetylsalicylic acid or mixts. of these; the compns. are used to introduce and maintain humidity in the atmospheric The aqueous compns. can be used to prolong the shelf life of foods, including vegetables, fruits, meats, fish, seafood , cheeses, other dairy products, cookies, breads, cakes, brown sugar, and tortillas, as well as cut flowers. The aqueous compns. can be applied directly to the food or can be applied to evaporation devices. The evaporation devices have a shell with holes and an absorbent material encased in the shell. When the aqueous composition has been applied to the evaporation device, the device is placed in a space that contains the food to be preserved. Thus, the usable life of lettuce can be extended 1-3 days by use of the device. The evaporation device can be recharged by reapplying the aqueous composition as needed. REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:761794 HCAPLUS

DOCUMENT NUMBER:

130:13420

TITLE:

SOURCE:

Pigment/dyestuff composition

INVENTOR(S):
PATENT ASSIGNEE(S):

Rydenfors, Goran AB Tripasin, Swed.

PCT Int. Appl., 10 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                        KIND
                              DATE
                                          APPLICATION NO.
                                                                DATE
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                                          ------
                                                                _____
    WO 9851160
                        A1
                              19981119
                                          WO 1998-SE885
                                                                19980514 <--
        W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
            CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, GW, HU,
            ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
            MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
            SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, ML, MR, NE, SN, TD, TG
    SE 9701828
                              19981116
                        Α
                                          SE 1997-1828
                                                                19970516 <--
    SE 508907
                         C2
                              19981116
    AU 9875598
                                          AU 1998-75598
                         A1
                              19981208
                                                                19980514 <--
PRIORITY APPLN. INFO.:
                                          SE 1997-1828
                                                                19970516 <--
                                          WO 1998-SE885
                                                                19980514 <--
```

AB A pigment/dyestuff composition for coloring of collagencontaining sausage casings is disclosed. The composition
comprises 2-10 % by weight of pigment/dyestuff, 3-30 % by weight of
polyoxyethylene sorbitan fatty acid ester, 1-10 % by weight of sorbitan fatty
acid ester, 0-70 % by weight of dispersing agent, the balance being
water and, optionally, other conventional additives.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

2

ACCESSION NUMBER:

1997:580666 HCAPLUS

DOCUMENT NUMBER:

127:181148

TITLE:

Liquid compositions for adrenal cortex

function promotion and infection prevention Sakata, Shigenobu; Tatsumi, Jiro; Fukai, Masaru

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

Handa, Shigenobu, Japan

Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09176029	A2	19970708	JP 1995-354770	19951226
PRIORITY APPLN. INFO.:			JP 1995-354770	19951226

AB Liquid compns. for adrenal cortex function promotion and infection prevention comprise Tilia exts. and substances selected from e.g. iron ammonium citrate, salicylic acid and citric acid. The compns. also can be incorporated into cosmetics or foods.

L32 ANSWER 22 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:456087 HCAPLUS

DOCUMENT NUMBER:

127:140535

TITLE:

Product for alleviating the symptoms of arthritis in

mammals

INVENTOR(S):

Moore, Eugene R.

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S., 6 pp., Cont.-in-part of U.S. 5,529,786.

CODEN: USXXAM

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	ΓNO.		KIND	DATE	APPLICATION NO.	DATE
			-			
US 564	15851		Α	19970708	US 1996-629744	19960409 <
US 552	29786		A	19960625	US 1994-202723	19940228 <
WO 973	37643		A1	19971016	WO 1996-US7423	19960521 <
₩:	AT, AU,	BR,	CA, CH	, CZ, DE,	DK, ES, FI, GB, JP,	MX, NO, NZ, SE
RV	V: AT, BE,	CH,	DE, DK	, ES, FI,	FR, GB, GR, IE, IT,	LU, MC, NL, PT, SE
AU 966	0235		A1	19971029	AU 1996-60235	19960521 <
PRIORITY A	PPLN. INFO	. :	,		US 1994-202723	19940228 <
					US 1996-629744	19960409 <
					WO 1996-US7423	19960521 <

A composition useful as an edible supplement for alleviating the symptoms of arthritis for oral consumption by mammals comprise animal tissue containing water-insol. Type II collagen, which has been separated from non-Type II collagen containing tissue and has been sterilized in subdivided form without changing the original structure of the Type II collagen. Collagen was prepared from chicken cartilage and soaked in 3% hydrogen peroxide solution for 20 min for sterilization. A mature, 135 lb female suffering from severe rheumatoid polyarthritis took 0.1 g/day above collagen for the first mo and 0.5 g/day for the remaining 3 mo. The patient was gradually able to reduce the intake of her normal arthritis medicine without ill effect. During this treatment time a general decrease in pain in all joint was also noted.

L32 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:124867 HCAPLUS

DOCUMENT NUMBER:

126:156646

TITLE:

Collagen sausage casing containing

encapsulated smoke and method of making

INVENTOR (S):

Stribling, Kenneth V.

PATENT ASSIGNEE(S):

SOURCE:

Devro Plc, UK U.S., 3 pp.

DOCUMENT TYPE:

CODEN: USXXAM

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5599570	 А	19970204	US 1995-552835	10051100
EP 861033	A1	19980902	EP 1996-935154	19951103 < 19961104 <
EP 861033	B1	20030129		13301104 (
R: DE, ES, GB,	NL			
ES 2189887	T3	20030716	ES 1996-935154 .	19961104 <
US 5716656	Α	19980210	US 1996-751294	19961118 <
PRIORITY APPLN. INFO.:			US 1995-552835 A	19951103 <
			WO 1996-GB2685 W	19961104 <

AB A collagen food wrapping comprising collagen extruded into a film is disclosed. The collagen contains a smoke component which is encapsulated with an encapsulating material which will release the smoke component during curing or cooking prior to consumption. The invention further includes a collagen slurry containing an encapsulated liquid smoke component and a method for

manufacturing a wrapped food product by extruding the slurry onto a surface of the food product to form such a film.

L32 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:79824 HCAPLUS

DOCUMENT NUMBER: 120:79824

TITLE: Elimination of chrome in solid residues from tanning

AUTHOR(S): Celma, Pedro; Cabeza, Luisa F.; Ases, Xavi; Cot,

James; Manich, Albert

Inst. Quim. Sarria, Barcelona, Spain CORPORATE SOURCE:

SOURCE: Afinidad (1993), 50(447), 286-8 CODEN: AFINAE; ISSN: 0001-9704

DOCUMENT TYPE: Journal

LANGUAGE: Spanish

A method for recovery and recycling of chrome reagent and collagen from tanned leather residues is based on treatment with H202 in basic medium (formaldehyde as stabilizer, Na2SO4 and CaSO4). Oxidation of Cr(III) to Cr(VI) takes place under de-tanning conditions that preserve the fiber content of collagen. After oxidation for 45 min

at room temperature, the residue is rinsed, filtered, and rinsed/dehydrated

with

acetone. The bath containing Cr(VI) is treated with NaCl/H2SO4 to reduce Cr(VI) to Cr(III), which can be recovered for tanning or safely disposed of. The elimination of Cr from the residue was ≤98.8%, depending on the amount of H2O2 used. The collagen can be used for feed, or can be reconstituted and used in pharmaceutical and cosmetic formulations.

L32 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1993:190482 HCAPLUS

DOCUMENT NUMBER:

118:190482

TITLE:

The use of fibrous collagen as a texture modifier in

foods, pharmaceuticals, and cosmetics

INVENTOR(S): French, James William Leonard

PATENT ASSIGNEE(S):

Stork Fibron B. V., Neth. SOURCE: Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

Patent

DOCUMENT TYPE: LANGUAGE:

English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 532119	A1		EP 1992-202744	19920909 <
	R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LI, L	U, MC, NL, PT, SE
	NL 9101520	Α	19930401	NL 1991-1520	19910909 <
	JP 06090671	A2	19940405	JP 1992-239421	19920908 <
	RITY APPLN. INFO.:			NL 1991-1520	19910909 <
AB	Fibrous collagen is	used to	control	the consistency and s	tructure of
	foods pharmagantics	. 1	3	m1 511 1 22	

foods, pharmaceuticals, and cosmetics. The fibrous collagen fiber is preferably prepared by the method of PCT Patent Application PCT/GB91/02289. Preparation of a basis for cosmetic or therapeutical cream from the fibrous collagen fiber, water, and lanolin was shown.

L32 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:150178 HCAPLUS

DOCUMENT NUMBER:

114:150178

TITLE:

Manufacture of microcapsules from atelocollagen and polyholosides for cosmetic, pharmaceutical or

food compositions

INVENTOR(S):

Levy, Marie Christine; Andry, Marie Christine; Huc,

Alain; Buffevant, Chantal

PATENT ASSIGNEE(S): SOURCE:

Bioetica S. A., Fr. Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 381543 EP 381543	A1 B1	19900808 19930526	EP 1990-400030	•	19900105 <
	DE, DK	, ES, FR, GB	, GR, IT, LI, LU, NL		
FR 2642329	A1	19900803	FR 1989-1221		19890131 <
FR 2642329	B1	19910524			
AT 89766	E	19930615	AT 1990-400030		19900105 <
ES 2058827	Т3	19941101	ES 1990-400030		19900105 <
AU 9048864	A1	19900809	AU 1990-48864		19900129 <
AU 633866	B2	19930211			
CA 2009065	AA	19900731	CA 1990-2009065		19900131 <
CA 2009065	C	19990824			
JP 02229111	A2	19900911	JP 1990-21927		19900131 <
JP 2534921	B2	19960918			
US 5395620	A	19950307	US 1993-74701		19930608 <
US 5622656	A	19970422	US 1994-328903		19941025 <
PRIORITY APPLN. INFO.:			FR 1989-1221	Α	19890131 <
			US 1989-336711	Α	19890412 <
			EP 1990-400030	Α	19900105 <
			US 1991-749909	В1	19910826 <
			US 1993-74701	A3	19930608 <

The microcapsules of the invention comprise a mixed wall of crosslinked atelocollagen and polyholosides (e.g. glycosaminoglycans), the proportion of the latter relative to the atelocollagen being preferably 18-50 weight%. The microcapsules can be manufactured either by a process involving interfacial crosslinking or by extrusion of a laminar flow which is broken up by vibrations into individual droplets, which fall in a crosslinking bath. The atelocollagen-containing microcapsules are biocompatible and are especially suitable for the manufacture of cosmetic, pharmaceutical, or food compns. Manufacture of microcapsules containing vitamin C, CD RED 30 pigment, olive oil, salmon oil, or oenethera oil is described.

L32 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:6649 HCAPLUS

DOCUMENT NUMBER:

110:6649

TITLE:

Composite material for foodstuffs

or for tissue culture and method for its

preparation

INVENTOR(S):

Stol, Miroslav; Adam, Milan; Lukes, Eduard; Jats,

Oldrich; Kucera, Frantisek

PATENT ASSIGNEE(S):

Czech.

SOURCE:

Czech., 15 pp. CODEN: CZXXA9

DOCUMENT TYPE:

Patent

LANGUAGE:

Czech

FAMILY ACC. NUM. COUNT:

. 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
CS 235857	B1	19850515	CS 1982-9669	19821227 <
PRIORITY APPLN. INFO.:			CS 1982-9669	19821227 <

Sausage casings were prepared by treating 500 g swollen collagen AΒ containing 7% solids with 665 mL water containing 2.5 g NaOH to obtain a viscous liquid containing 3% collagen. This liquid was mixed with a viscose solution containing 10% cellulose and 7% NaOH, spread on glass to form a 0.25-0.30 mm film and coaqulated with 30 q Na2SO4 in 10 mL concentrated H2SO4/L. The film was successfully used as a substrate for cultures of embryonal fibroblasts and myoblasts.

L32 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:173409 HCAPLUS

DOCUMENT NUMBER: 100:173409

Alkaline hydrolyzates of collagen TITLE: Popernatskii, O. A.; Nosovskii, M. V. AUTHOR(S):

Luzhsk. Zavod "Belkozin", USSR CORPORATE SOURCE:

Myasnaya Industriya SSSR (1984), (2), 28-31 SOURCE:

CODEN: MYISAM; ISSN: 0027-5492

DOCUMENT TYPE: Journal LANGUAGE: Russian

Collagen-containing waste materials from the sausage manufacturing industry were hydrolyzed at 0.2 MPa and 130° for 2.5-24 h in the presence of weak alkali, such as Ca(OH)2 (7.4 or 142 g/L), to obtain (after purification and drying) a collagen hydrolyzate for use in animal feeding, cosmetics, or the microbiol. industry. Hydrolyzates obtained by 24-h hydrolysis with Ca(OH)2 at 7.4 g/L or 2.5-h hydrolysis at 142 g Ca(OH)2/L had an amino acid composition similar to that of collagen. The degree of collagen hydrolysis was more affected by the concentration of Ca(OH)2 than by the duration of hydrolysis.

L32 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1983:214430 HCAPLUS

DOCUMENT NUMBER: 98:214430

TITLE: A product containing gelled, hydrolyzed

collagen

INVENTOR(S): Shank, Joseph L. PATENT ASSIGNEE(S): Dynagel, Inc., USA Eur. Pat. Appl., 57 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 73908	A1	19830316	EP 1982-106370	19820715
EP 73908	B1	19850313		
R: AT, BE, CH,	DE, FR	, GB, IT, LI	I, NL, SE	
US 4426443	A	19840117	US 1981-295796	19810827
AT 12064	E	19850315	AT 1982-106370	19820715
AU 8286144	A1	19830303	AU 1982-86144	19820719
AU 554974	B2	19860911		
ZA 8205687	A	19830629	ZA 1982-5687	19820805
CA 1184361	A1	19850326	CA 1982-408879	19820806
US 4528204	Α	19850709	US 1984-570250	19840112

PRIORITY APPLN. INFO.:

US 1981-295796 19810827 EP 1982-106370 19820715

AB An ungelled aqueous concentrate with a gel-set temperature >20° comprising 10-60

weight % hydrolyzed collagen and a non-acid lyotropic agent (urea [57-13-6] or CaCl2) at a collagen-lyotrope ratio of 1:0.1-1:4.5

with a concentrate pH value of .apprx.2.5 to .apprx.7 is prepared The concentrate is $\frac{1}{2}$

stable at room temperature, readily dilutable, and requires no heating for dilution

The concentrate is suitable for use in **food**, coal dust control, photog. film subbings, and paper sizing. Dilution with water to a hydrolyzed **collagen** concentration of apprx.2 weight % in the total **composition** while maintaining the concentrate pH, gives a diluted **composition** with a gel-set temperature higher than that of the concentrate Thus, a gelatin dessert was

prepared by dry blending gelatin-HCl 26.4, urea 18.9, fumaric acid [110-17-8] 4.0, sodium citrate [994-36-5] 1.8, sodium benzoate [532-32-1] 0.05, and K sorbate 0.05 weight %, adding liquid flavoring and coloring and water 42.7 weight %, and heating with agitation at 60° to form a homogeneous concentrate The pH was adjusted by adding NaOH and sweeteners were added. After cooling, the concentrate had a pH of 4.5 and a gel-set temp of 10°. Dilution of 1 vol of concentrate with 10 volume tap water produced a gelatin dessert with gel-set temperature of 13.5°.

L32 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:525956 HCAPLUS

DOCUMENT NUMBER: 97:125956

TITLE: Production of feed flow from

collagen-containing raw materials

AUTHOR(S): Biktashev, R. U.; Nedzvetskii, V. K.; Filippov, G. S.

CORPORATE SOURCE: Vet. Inst., Kazan, USSR

SOURCE: Nauchnye Trudy Kazanskogo Gosudarstvennogo

Veterinarnogo Instituta im. N. E. Baumana (

1981), 134, 106-7 CODEN: NTKBDS

DOCUMENT TYPE: Journal LANGUAGE: Russian

AB Tannery wastes, mainly from the flesh side of skins, are hydrolyzed either fermentatively (0.25% complex fermentation preparation added) or by acid (2% HOAc)-alkaline (1% (NH4)2SO4) treatment to produce a meal with improved nutritional characteristics which can be used in livertack for an account of the former of the fo

nutritional characteristics which can be used in livestock **feeds**. The raw material **contained**: **dry** substance 23, crude

protein 11.9, ash 7.7, NaCl 5, and S 0.13%, and had a pH of 14.0. The meal produced had the following composition: dry substance 95, N 8, fat 17, ash 22, total S 0.75-1.06, and NaCl <0.3%.

L32 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:177002 HCAPLUS

DOCUMENT NUMBER: 88:177002

TITLE: The composition of Phenonip and its

compatibility with collagen

AUTHOR(S): Riemschneider, R.; Chik, W. H.

CORPORATE SOURCE: Inst. Biochem., Freie Univ. Berlin, Berlin, Fed. Rep.

Ger.

SOURCE: Kosmetika (Zurich) (1977), 5(5), 119-26

CODEN: KOSMDX; ISSN: 0377-8304

DOCUMENT TYPE: Journal LANGUAGE: German

AB 2-(Phenoxy)-ethanol [122-99-6], p-hydroxybenzoic acid Me ester

[99-76-3], p-hydroxybenzoic acid Et ester [120-47-8], p-hydroxybenzoic acid Pr ester [94-13-3], p-hydroxybenzoic acid iso-Bu ester [4247-02-3], and p-hydroxybenzoic acid n-butylester [94-26-8] were identified by gas-liquid chromatog. in Phenonip [8066-38-4]. Phenonip as a preservative did not interfere with standard methods used for characterization of collagen solns. A Phenonip-preserved collagen contained 33% glycine and 16 other amino acids in various amts., but not cystine.

L32 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1971:65069 HCAPLUS

DOCUMENT NUMBER:

74:65069

TITLE:

Synthetic leather containing collagen powder

INVENTOR(S): Braun, Emil; Kuehn, Joachim

PATENT ASSIGNEE(S):

Freudenberg, Carl, K.-G.

SOURCE:

Fr., 14 pp.

CODEN: FRXXAK

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1598778		19700814		<
GB 1251829			GB	
י אווער אינער אידער			חם	19671227

PRIORITY APPLN. INFO.:

A uniformly distributed collagen powder vulcanized on sheets of polyamide fibers (I), latex, poly(vinyl acetate), polyamide-wool, or polyamide-polyester composites gave artificial leather with good water impermeability. Thus, a powder of 120 mg HCHO/100 g collagen was uniformly distributed (150 g/m2) by a transversal feeder on a sheet of I. This composite was clamped between 2 sheets of wire gauze, dried, impregnated in a latex bath, and heated at 50-130° to complete vulcanization. This sheet was coated with polyurethane to give a leather substitute used as a shoe upper which was air- but not water-permeable.

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=> d gue stat 134
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                                           "SODIUM BICARBONATE"/CN
L1
                                           SODIUM SULPHATE/CN
              1 SEA FILE=REGISTRY ABB=ON
1.2
              1 SEA FILE=REGISTRY ABB=ON
                                          AMMONIUM CHLORIDE/CN
1.3
                                          CALCIUM CHLORIDE/CN
              1 SEA FILE=REGISTRY ABB=ON
1.4
              O SEA FILE=REGISTRY ABB=ON
                                           SODIUM HYDROGEN PHOSPHATE/CN
L5
              2 SEA FILE=REGISTRY ABB=ON
                                          ("SODIUM HYDROGEN PHOSPHATE (NA2H2P2O
1.6
                7) "/CN OR "SODIUM HYDROGEN PHOSPHATE (NAH2PO4) "/CN)
              4 SEA FILE=REGISTRY ABB=ON ("POTASSIUM HYDROGEN PHOSPHATE
L7
                (K2H2P2O7) "/CN OR "POTASSIUM HYDROGEN PHOSPHATE (K2HPO4) "/CN
                OR "POTASSIUM HYDROGEN PHOSPHATE (K3HP2O7)"/CN OR "POTASSIUM
                HYDROGEN PHOSPHATE (KH2PO4) "/CN)
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L8
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L9
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L10
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L11
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L12
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              3 SEA FILE=HCAPLUS ABB=ON L11 AND (?COOK? OR ?BAKE? OR ?BOIL?
L13
                OR ?BROIL?)(L)(?RESIST? OR ?LESS? OR ?RESTRICT? OR ?BARRIER?)
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                ?AQUEOUS? OR ?WATER? OR ?LIQUID?)
             37 SEA FILE=HCAPLUS ABB=ON L12 OR L13 OR L14
L15
             37 SEA FILE=HCAPLUS ABB=ON L15 AND (?PACK? OR ?CONTAIN? OR
L16
                ?HOLD? OR ?SECURE?)
              4 SEA FILE=HCAPLUS ABB=ON L15 AND (?PACK? OR ?HOLD?)
L17
             37 SEA FILE=HCAPLUS ABB=ON L16 OR L17
L18
             12 SEA FILE=HCAPLUS ABB=ON L18 AND (?COMPOSIT? OR ?FORMULAT?)
L19
L20
              7 SEA FILE=HCAPLUS ABB=ON L18 AND (?METHOD? OR ?TECHNIQ?)
L21
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L22
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                OR L5 OR L6 OR L7 OR L8 OR L9 OR (?SODIUM? OR NA)(W)(?BICARBONA
                T? OR ?SULPHAT? OR ?SULFAT?) OR (?AMMONIUM? OR NH4 OR ?CALCIUM?
                 OR CA OR ?POTASSIUM?) (W) (?CHLORIDE? OR CL) OR (?SODIUM? OR NA
                OR ?POTASSIUM?) (W) (?HYDROGEN?) (W) (?PHOSPHAT?))
            564 SEA FILE=HCAPLUS ABB=ON L24 AND (?CASING? OR ?CONTAIN?)
L25
L26
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L27
                ?STRONG?) OR ?THICK?)
             60 SEA FILE=HCAPLUS ABB=ON L22 OR L26 OR L27
T.30
             32 SEA FILE=HCAPLUS ABB=ON L30 AND (?COMPOSIT? OR ?FORMULAT? OR
L32
                ?METHOD? OR ?TECHNIO?)
              4 SEA L32
1.33
L34
              4 DUP REMOV L33 (0 DUPLICATES REMOVED)
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=> d ibib abs 134 1-4

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L34 ANSWER 1 OF 4
                       MEDLINE on STN
ACCESSION NUMBER:
                    96426976
                                 MEDLINE
DOCUMENT NUMBER:
                    PubMed ID: 8829239
TITLE:
```

Textural, color, and sensory properties of bologna containing various levels of washed chicken skin.

AUTHOR: Bonifer L J; Froning G W; Mandigo R W; Cuppett S L; Meagher

CORPORATE SOURCE: Department of Food Science and Technology, University of

Nebraska, Lincoln 68583-0919, USA.

SOURCE: Poultry science, (1996 Aug) 75 (8) 1047-55.

Journal code: 0401150. ISSN: 0032-5791.

PUB. COUNTRY: United States DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199612

ENTRY DATE:

Entered STN: 19970128

Last Updated on STN: 19970128

Entered Medline: 19961217

Poultry skin was washed in sodium bicarbonate (0.5%) AB

solution in a pilot plant facility to remove fat from skin.

Composition of the washed product was determined and its

functional properties were determined in a bologna product at the levels of 0, 10, and 20%. Washing reduced fat, and increased total protein and moisture in skin. Collagen content was significantly increased and water- and salt-soluble protein in washed skin were significantly decreased compared to unwashed skin (P < 0.05). With reference to emulsion stability, skin content did not affect fat or gel-water losses and lowered solids loss when compared to bologna with 0% skin (P < 0.05). Kramer Shear peak force was not significantly different for bologna at each treatment level. Total energy was higher for bologna with 0% skin (P < 0.05). Skin addition did not affect compression measurements of hardness, springiness, cohesiveness, and chewiness when compared to bologna with 0% skin. The addition of skin resulted in a lighter (L), less red (aL), and less yellow (bL) product according to HunterLab color analysis (P < 0.05). Consumer panelists rated bologna with 10% skin highest in texture, flavor, and texture and appearance acceptability (P < $0.\overline{05}$). Washed chicken skin may have potential as a low cost, low fat ingredient for emulsified meat products.

L34 ANSWER 2 OF 4 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

DOCUMENT TYPE:

FILE SEGMENT:

91268238 EMBASE

DOCUMENT NUMBER:

1991268238

TITLE:

Dietary fat modifies thromboxane A2-induced stimulation of

rat platelets.

AUTHOR:

Heemskerk J.W.M.; Feijge M.A.H.; Kester A.; Hornstra G. Department of Biochemistry, Biomedical Center, University of Limburg, P.O. Box 616,6200 MD Maastricht, Netherlands

SOURCE:

Biochemical Journal, (1991) 278/2 (399-404).

ISSN: 0264-6021 CODEN: BIJOAK

COUNTRY:

United Kingdom Journal; Article Hematology 025

Clinical Biochemistry 029

English

LANGUAGE: SUMMARY LANGUAGE:

English

Diets containing high levels of monounsaturated, n-6 polyunsaturated and n-3 polyunsaturated fatty acids were fed to Wistar rats. This resulted in decreases in the arachidonate content in platelet phospholipids to 91%, 79% and 51% respectively of the level found after feeding a diet rich in saturated fatty acids. In the presence of CaCl2, collagen- and thrombin-induced aggregation of washed platelets from the saturated-fat dietary group (with highest level of arachidonate) was low compared with that of platelets from the other dietary groups, despite a relatively high production of thromboxane B2. On the other hand, n-3 polyunsaturated fatty acids in the diet resulted in platelets aggregating actively, but producing low levels of levels of thromboxane B2. When indomethacin-treated rat platelets were activated with the thromboxane A2 analogue U46619, the presence of a second agonist such as collagen, ADP or thrombin was necessary for aggregate formation. U46619-induced aggregation in combination with either

co-activator was relatively low in arachidonate-rich platelets, and was higher in platelets with a low arachidonate content. Similarly, phospholipase C-catalysed formation of L-myo-inositol phosphates was higher in platelets with a low arachidonate content. We conclude that the ability of platelets to react with thromboxane A2 is modified by diet in such a way that a decreased substrate-limited generation of thromboxane A2 is compensated for by an increased response to thromboxane, and vice versa. No significant differences were detected in the binding of U46619 or SQ29548 to platelets from the various dietary groups. Therefore the changed response seems not to be caused by modified properties of the thromboxane A2/prostaglandin H2 receptors, but by altered transduction of the thromboxane signal.

L34 ANSWER 3 OF 4 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

77137904 EMBASE ACCESSION NUMBER:

DOCUMENT NUMBER:

1977137904

TITLE:

Effect of different levels of methionine and sulfate on

collagen metabolism and growth of young pigs.

AUTHOR:

Robel E.J.

CORPORATE SOURCE:

Non Ruminant Anim. Nutrit. Lab., Nutrit. Inst., US Dept.

Agric., Beltsville, Md. 20705, United States

SOURCE:

Nutrition Reports International, (1976) 14/2 (147-154).

CODEN: NURIBL

DOCUMENT TYPE:

Journal

FILE SEGMENT:

Clinical Biochemistry 029

General Pathology and Pathological Anatomy 005

LANGUAGE:

English

The sparing effect of sulfate sulfur on dietary methionine was investigated in relation to collagen metabolism and body weight gains with weaned pigs 2 wk of age. The diets for the various treatments contained crystalline amino acids and a sulfate free mineral mixture. The basal diet contained 0.8% L methionine. Sodium sulfate was added to methionine limiting diets in amounts to make the combination of methionine and sodium sulfate equal to 0.8%. The methionine limiting diets contained 0.6, 0.4, 0.2 and 0.0% of L methionine. The pigs were allowed the diets and deionized water ad libitum for 3 wk. When sodium sulfate replaced up to 50% of the dietary methionine level of the basal diet, body weight gains, feed utilization, neutral salt soluble collagen levels or total collagen levels of pig tendon tissue did not differ (P < 0.01) from those of pigs fed the basal. Differences (P <0.01) between pigs fed the basal containing 0.8% sodium sulfate and those fed the basal without sodium sulfate were not observed for the parameters studied.

L34 ANSWER 4 OF 4 JAPIO (C) 2004 JPO on STN ACCESSION NUMBER: 2004-159656 JAPIO

TITLE:

STARCH/COLLAGEN CASING FOR

CO-EXTRUDED FOOD PRODUCT

INVENTOR:

JOLY GHISLAINE; KASICA JAMES J; O'MARA ROBERT; SHARIFF

ROXANNA

PATENT ASSIGNEE(S):

NATL STARCH & CHEM INVESTMENT HOLDING CORP

PATENT INFORMATION:

KIND DATE PATENT NO ERA MAIN IPC JP 2004159656 A 20040610 Heisei A22C013-00 APPLICATION INFORMATION

STN FORMAT:

JP 2003-372091

20031031 Heisei

ORIGINAL:

JP2003372091

PRIORITY APPLN. INFO.:

US 2002-291888

20021108

SOURCE:

PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined

Applications, Vol. 2004

2004-159656 JAPIO ΔN

PROBLEM TO BE SOLVED: To provide composites or combinations of AB selected starches and collagen imparting very useful casing materials for co-extruded food products such as sausage. SOLUTION: The casing material includes collagen and starches. Wherein the starch is a gel forming, non-degraded, amylose containing dispersed starch, or a gel forming, non-degraded, chemically crosslinked or physically inhibited amylopectin dispersed starch. The starch is characterized by a G' of 600 Pa or greater at a frequency of 0.1 rad/sec at 25 ° C prepared at a solid concentration of 10 weight %, the amount of starch to collagen being from about 0.05:1 to 10:1 parts by weight on a dry basis.

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	FILE	REGIS	STRY' ENTERED AT 14:31:39 ON 31 OCT 2004
			E COLLAGEN/CN
			E SODIUM BICARBONATE/CN
L1		1	SEA ABB=ON "SODIUM BICARBONATE"/CN
L2			SEA ABB=ON SODIUM SULPHATE/CN
L3		1	SEA ABB=ON AMMONIUM CHLORIDE/CN
L4			SEA ABB=ON CALCIUM CHLORIDE/CN
L5			SEA ABB=ON SODIUM HYDROGEN PHOSPHATE/CN
כם		U	E SODIUM HYDROGEN PHOSPHATE/CN
т С		2	SEA ABB=ON ("SODIUM HYDROGEN PHOSPHATE (NA2H2P2O7)"/CN OR
L6		2	"SODIUM HYDROGEN PHOSPHATE (NAH2PO4)"/CN)
			E POTASSIUM HYDROGEN PHOSPHATE/CN
L7		4	SEA ABB=ON ("POTASSIUM HYDROGEN PHOSPHATE (K2H2P2O7)"/CN OR
			"POTASSIUM HYDROGEN PHOSPHATE (K2HPO4)"/CN OR "POTASSIUM
			HYDROGEN PHOSPHATE (K3HP2O7)"/CN OR "POTASSIUM HYDROGEN
			PHOSPHATE (KH2PO4)"/CN)
			E POTASSIUM CHLORIDE/CN
L8		1	SEA ABB=ON "POTASSIUM CHLORIDE"/CN
			E AMMONIUM SULPHATE/CN
Ь9		1	SEA ABB=ON "AMMONIUM SULPHATE"/CN
	FILE	'HCAPI	LUS' ENTERED AT 14:33:46 ON 31 OCT 2004
L10		995	SEA ABB=ON ?COLLAGEN?(W)(?CASING? OR ?CONTAIN?)
			SEA ABB=ON L10 AND (?FOOD? OR ?FEED?)
L12		1	SEA ABB=ON L11 AND (?CLIP?(3A)(?STRENGTH? OR ?STRONG?) OR
1112		-	?THICK?)
L13		2	SEA ABB=ON L11 AND (?COOK? OR ?BAKE? OR ?BOIL? OR ?BROIL?) (L) (
1113		3	?RESIST? OR ?LESS? OR ?RESTRICT? OR ?BARRIER?)
		2=	SEA ABB=ON L11 AND (?SOAK? OR DRY? OR ?DRIED? OR ?AQUEOUS? OR
L14		3/	
			?WATER? OR ?LIQUID?)
L15			SEA ABB=ON L12 OR L13 OR L14
L16			SEA ABB=ON L15 AND (?PACK? OR ?CONTAIN? OR ?HOLD? OR ?SECURE?)
L17			SEA ABB=ON L15 AND (?PACK? OR ?HOLD?)
L18			SEA ABB=ON L16 OR L17
L19			SEA ABB=ON L18 AND (?COMPOSIT? OR ?FORMULAT?)
L20			SEA ABB=ON L18 AND (?METHOD? OR ?TECHNIQ?)
L21			SEA ABB=ON L18 OR L19 OR L20
L22			SEA ABB=ON L21 AND (PD<20021115 OR PRD<20021115)
L23		0	SEA ABB=ON L22 AND (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR
			L8 OR L9 OR (?SODIUM? OR NA) (W) (?BICARBONAT? OR ?SULPHAT? OR
			?SULFAT?) OR (?AMMONIUM? OR NH4 OR ?CALCIUM? OR CA OR ?POTASSIU
			M?) (W) (?CHLORIDE? OR CL) OR (?SODIUM? OR NA OR ?POTASSIUM?) (W) (
			<pre>?HYDROGEN?) (W) (?PHOSPHAT?))</pre>
L24		1032	SEA ABB=ON ?COLLAGEN? AND (L1 OR L2 OR L3 OR L4 OR L5 OR L6
112.4		1032	OR L7 OR L8 OR L9 OR (?SODIUM? OR NA) (W) (?BICARBONAT? OR
			?SULPHAT? OR ?SULFAT?) OR (?AMMONIUM? OR NH4 OR ?CALCIUM? OR
			CA OR ?POTASSIUM?) (W) (?CHLORIDE? OR CL) OR (?SODIUM? OR NA OR
T 0.5		E C 4	POTASSIUM?) (W) (PHOSEN?) (W) (PHOSPHAT?)) SEA ABB=ON L24 AND (PASING OR PRONTAIN?)
L25			
L26			SEA ABB=ON L25 AND (?FOOD? OR ?FEED?)
L27		1	SEA ABB=ON L26 AND (?CLIP?(3A)(?STRENGTH? OR ?STRONG?) OR
			?THICK?)
L28		0	SEA ABB=ON L27 AND (?COOK? OR ?BAKE? OR ?BOIL? OR ?BROIL?) (L) (
			?RESIST? OR ?LESS? OR ?RESTRICT? OR ?BARRIER?)
L29		0	SEA ABB=ON L28 AND (?SOAK? OR DRY? OR ?DRIED? OR ?AQUEOUS? OR
			?WATER? OR ?LIQUID?)
L30		60	SEA ABB=ON L22 OR L26 OR L27
L31		4	SEA ABB=ON L30 AND (?PACK? OR ?HOLD?)

L32

L33

L34

32 SEA ABB=ON L30 AND (?COMPOSIT? OR ?FORMULAT? OR ?METHOD? OR ?TECHNIQ?) 32 citz from Of Plus

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 14:46:17 ON Yaik fear other databases 31 OCT 2004

4 SEA ABB=ON L32

4 DUP REMOV L33 (0 DUPLICATES REMOVED)

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